

**The District of Columbia
Nonpoint Source Management Plan II**

2000 Annual Report

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by the

**District of Columbia Government
Department of Health
Environmental Health Administration
Bureau of Environmental Quality
Watershed Protection Division**

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ACRONYMS

ANC	Area Neighborhood Commission
AOC	Area Of Concern
AQD	Air Quality Division
ARAR	Applicable Relevant and Appropriate Requirements
ARBC	Anacostia River Business Coalition
ASIWPCA	Association of State and Interstate Water Pollution Control Administrators
BMP	Best Management Practice(s)
CBP	Chesapeake Bay Program
CSO	Combined Sewer Overflow
CWA	<i>Clean Water Act</i>
DC	District of Columbia (the District)
DCEEC	District of Columbia Environmental Education Consortium
DCR	District of Columbia Register
DCOEP	District of Columbia Office of Emergency Preparedness
DCMR	District of Columbia Municipal Regulations
DO	Dissolved Oxygen
DOH	Department of Health
DPR	D.C. Department of Parks and Recreation
DPW	Department of Public Works
EHA	Environmental Health Administration
FAC	Federal Agencies Committee
FEMA	Federal Emergency Management Agency
FTE	Full time employee
FY	Fiscal Year
GIS	Geographic Information System
ICPRB	Interstate Commission on the Potomac River Basin
IPM	Integrated Pest Management
MOU	Memorandum of Understanding
MPD	Metropolitan Police Department
MPD ECU	Metropolitan Police Department Environmental Crimes Unit
MWAQC	Metropolitan Washington Air Quality Committee
MS4	Municipal Separate Storm Sewer System
MWCOG	Metropolitan Washington Council of Governments
NFIP	National Flood Insurance Program
NM	Nutrient Management
NOx	Nitrogen oxides
NPDES	National Pollution Discharge Elimination System
NPS	nonpoint source
NRCS	Natural Resources Conservation Service
OM	Organic Matter
OOP	Office of Planning
P2	pollution prevention
PCB	Poly-chlorinated biphenyls

RCRA	Resources Conservation Recovery Act
RFB	Riparian Forest Buffer
RFK	Robert F. Kennedy Stadium
SCS	Soil Conservation Service
SWCDD.C.	Soil and Water Conservation District
SWMP	Storm Water Management Plan
TMDL	Total Maximum Daily Load
USACE	United States Army Corp of Engineers
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USNPS	United States National Park Service
VOCs	Volatile Organic Compounds
WASA	Water and Sewer Authority
WNY	Washington Navy Yard
WPD	Watershed Protection Division
WQD	Water Quality Division
WWTP	Waste Water Treatment Plant

EXECUTIVE SUMMARY

The District of Columbia Department of Health, Environmental Health Administration's July 2000 *Nonpoint Source Management Plan II* describes the District of Columbia's strategy for managing nonpoint source pollution throughout the city. It updates the 1989 Nonpoint Source Management Plan and provides a strategy on restoring and protecting the District's waters and watersheds. The U.S. Environmental Protection Agency approved the revised plan in August 2000. The plan covers the categories of urban runoff, construction, hydrologic/habitat modification, and solid waste disposal. The *Nonpoint Source Management Plan II - 2000 Annual Report* describes the progress made from January 2000 to December 2000, by the District of Columbia in implementing this plan.

INTRODUCTION

In 1990, the District of Columbia Government established its Nonpoint Source (NPS) Management Program. The purpose of the program is to address the control and prevention of nonpoint source pollution to the District's surface and ground waters. The NPS Management Program is part of a comprehensive District watershed management program that strives to meet the national environmental goal of clean waters that support healthy communities of fish, plants, and other aquatic life and benefit uses such as fishing and swimming. Financial support for the program primarily comes from federal *Clean Water Act* (CWA) §319(h) and 117(b) federal grants, and the District of Columbia Government.

Regulatory Programs

Regulatory programs that directly support the District's NPS watershed protection efforts include: the Storm Water Management Program, which ensures, through a regulatory mechanism, that developers control both the quantity and quality of storm water runoff from new development or retrofit projects; The District of Columbia's Soil Erosion and Sediment Control Program, which regulates all land-disturbing activities to prevent accelerated erosion and transport of sediment to its receiving waters; The Floodplain Management Program, which reviews construction plans for all new development or substantial improvements to existing structures in a floodplain; and the Compliance and Enforcement Program, whose primary function is to enforce the laws and associated regulations that drive the above listed programs.

Nonregulatory Programs

A large component of the District's NPS watershed protection efforts are nonregulatory. The education and outreach program, habitat restorations and demonstration projects fall in the nonregulatory category.

HISTORICAL BACKGROUND

The complex nature of nonpoint source pollution, with a variety of contaminants emitted by a multiplicity of discrete agents, emptying into streams and rivers from the many outfalls of our sewer system, requires an equally complex management strategy. The NPS management strategy attempts to change the mind set and actions of individuals and communities, elected leaders and agency heads; to mitigate the effects of hydrologic engineering implemented well before scientific research prompted a revaluation of the District's natural resources; to concentrate activity on targeted tributaries; and to strictly enforces regulations for those activities that have been identified as having the greatest negative impact on the health of the District's natural resources. The District does not shoulder the entire load, but rather enjoins the assistance of many stakeholders and partners in an effort to deliver to the citizens of the District of Columbia and to the visitors to this Capitol city, clean water and healthy watersheds.

VISION STATEMENT

The Nonpoint Source Management Program envisions Washington, DC, as an innovator in the prevention and control of nonpoint source pollution in an urban setting. The Program sees itself as a leader in protecting the city's neighborhoods and watersheds from nonpoint source pollution, safeguarding the water and soil resources of the city, as well as the health, welfare, and safety of those using those resources. It also sees itself as a partner with other government agencies, citizens, and private industry by increasing stakeholder awareness and involvement in the clean-up efforts in the Anacostia River, Chesapeake Bay, and other local waterways and equipping city residents with the knowledge and tools on how to prevent nonpoint source pollution to their neighborhood streams.

NPS MANAGEMENT PROGRAM STRATEGY

The Nonpoint Source Management Program's strategy is based on the following long-term goals (10 to 25 years) and short-term objectives (10 years or less). Under each objective is a list of milestones (strategies) that D.C. NPS Management Program has identified to implement over the next five (5) years to help achieve the set goals and objectives. The agency or agencies involved in meeting each milestone have also been identified. The establishment of goals/objectives and the development of strategies, however, is an iterative process. The best implementation plans can change for better or worse based on such factors as availability of funding, resources, implementation successes or failures, political climate, and advances in technology. Therefore, the D.C. NPS Management Program will revisit this section of the Plan periodically to reassess where it is in meeting overall goals and to modify and update objectives and milestones to insure that the Program stays on track to meet milestones.

PLAN IMPLEMENTATION STATUS

GOAL A. Support activities that reduce pollutant loads from urban runoff, construction activity, combined sewer overflows, and trash disposal, for the purpose of attaining present designated uses by 2015 and future designated uses by 2025.

Measures: Reductions in pollutant loads; # BMPs installed; % of waterbodies meeting water quality standards; acres of wetlands restored; miles of stream corridor restored; improved biology.

Objective 1: Support District of Columbia Programs, Independent Activities, and Individual Actions That Work to Reduce the Amount of Toxic Chemicals to District of Columbia Surface and Ground Waters.

Milestone A: *Establish a pollution prevention council within the EHA that includes representatives from each Bureau/Division (agency: EHA)*

PROGRESS:

- A formal council will not be established, rather an ad hoc work group convenes as opportunities and issues arise.

Milestone B: *Complete and approve the toxic source reduction amendment to District regulations (agency: EHA)*

PROGRESS:

- This is a future task.

Milestone C: *Host regional conference on pollution prevention/waste minimization (agency: EHA)*

PROGRESS:

- This is a future task.
- Representatives from EHA will be attending a national conference on pollution prevention in 2001.

Milestone D: *Join the national pollution prevention round table (agency: EHA)*

PROGRESS:

- ▶ This is a future task. EHA is currently researching funding.

Milestone E: *Complete the draft guidebook for the Green Marina Initiative (agency: EHA)*

PROGRESS:

- ▶ The draft guidebook is complete and in the printing process.
- ▶ An RFP for implementation of the Green Marina Initiative will be publicized in 2001. The task will be to conduct outreach to marina operators and boaters on ways to achieve “green marina” status, and to assist efforts to achieve this status.

Milestone F: *Educate health care facilities about a system of inventory control for their toxic materials (agency: EHA)*

PROGRESS:

- ▶ EHA representatives have met with District hospital personnel in an effort to eliminate overstocking of and proper labeling and disposal of toxic materials used for health care. This is an ongoing task.
- ▶ DC DOH began a mercury thermometer exchange on September 26, 2000. Ten hospitals pledged to phase-in mercury-free health care practices. Though it was widely publicized through announcements in DC WASA water bills, notes to all District school children, and brochures distributed at District events, there was not a great response. As a result, the campaign has become ongoing, and is being republicized. The mercury thermometers can be exchanged for digital thermometers at any of the city’s 33 firehouses.

Milestone G: *Support and coordinate at least two (2) Household Hazardous Waste collection days per year for residents (agency: DPW)*

PROGRESS:

- ▶ Two Household Hazardous Waste collections were held at the Carter Baron Amphitheater last year on May 13 and October 14, 2000. The next event will be in May 2001.

Milestone H: *Enforce the anti-dumping laws in the District (agency: DPW, ECU)*

PROGRESS: (The following numbers reflect the time period January 2000 to July 2000. More current numbers are not currently available)

- ▶ The Environmental Crimes Unit (ECU) issued 210 NOI’s (Notice of Infraction) and wrote 506 violations for sanitation violations.
- ▶ ECU made 35 arrests for environmental violations such as illegal dumping
- ▶ ECU stopped and inspected 345 vehicles for sanitation violations, which range from improper transport of waste to littering.

Milestone I: *Inspect and maintain combined sewers (agency: WASA)*

PROGRESS:

- ▶ WASA is vigorously implementing its CSO Nine Minimum Control (NMC) Program.

Among the highlights of this program are:

- ✓ placing signs at all CSO outfalls; rehabilitation of the Northeast Boundary Sewer (\$1.6 million);
- ✓ CSO dry-weather overflow control projects (\$4 million); Solids/floatables control netting project (\$300,000);
- ✓ NEB Swirl Performance Evaluation project (\$1 million);
- ✓ Anacostia Siphons Inspection (\$50,000), etc.

These are in addition to the routine CSO system operation, maintenance and inspection activities.

Milestone J: Develop Memorandum of Understanding (MOU) with USEPA, USDA National Arboretum, and WASA to take action to reduce the pollutant load from Hickey Run, a tributary of the Anacostia River (2001) (agency: EHA, WPD)

PROGRESS:

- ▶ The Draft MOU is currently being processed.

Milestone K: Develop design for restoration of Hickey Run (2001) (agency: USDA-National Arboretum)

PROGRESS:

- ▶ Stakeholders agencies met to review existing proposals to control nonpoint source pollution in Hickey Run. The final restoration design is still under negotiation.

Milestone L: Collaborate to restore Hickey Run (2002) (agencies: EHA, USEPA, USDA - National Arboretum)

PROGRESS:

- ▶ Attended kick-off meeting at National Arboreteum for EPA Chesapeake Bay Program funded study to determine solutions for preventing trash and other contaminants from entering Hickey Run. Study being conducted by Center for Watershed Protection.
- ▶ \$500,000 put in DC budget for Netting Trash Racks and oil containment booms to be installed on Hickey Run

Milestone M: Complete restoration of Hickey Run (2003) (agencies: EHA, USEPA, USDA - National Arboretum)

PROGRESS:

- ▶ This is a future task. 2003 is still an accurate prediction for completion of implementation actions. Implementation actions will work to filter pollutants, restore channelized stream portions, control sediment input, and improve downstream habitat.

Objective 2: Strive to Reduce the Amount of Nutrients to District of Columbia Surface and

Ground Waters.

Milestone A: Implement programs to minimize the loss of vegetation during development and re-development in the city (agency: DPW)

PROGRESS:

- ▶ Four thousand (4000) of the five thousand (5000) street trees planned for installation in 2000, have been successfully planted. The remaining one thousand (1000) trees will be added to the schedule for 2002.
- ▶ Five thousand (5000) trees are budgeted for planting in 2001, and five thousand (5000) trees are budgeted for planting in 2002.

Milestone B: Establish a voluntary nutrient management program for local government parks (agency: WPD)

PROGRESS:

- ▶ This is a future task, the completion of which is dependant upon workshops conducted by EHA, stated in GOAL D, Objective 4, Milestone F, which states that WPD will: “conduct workshops on nutrient management and integrated management, targeting schools, public housing and D.C. Parks”.

Milestone C: Perform regular, appropriate calibration of vehicle exhaust test equipment at vehicle inspection lanes (agency: EHA - AQD)

PROGRESS:

- ▶ EHA AQD performed this calibration in 2000, and stepped up these efforts by scheduling this calibration to occur in each of the District’s eight vehicle inspection lanes once every month.

Milestone D: Provide outreach to planners, developers and watershed managers on the benefits, principals and practice of Low Impact Development (LID) (agency: EHA - WPD)

PROGRESS:

- ▶ Coordinated Low Impact Development Workshop to be held on January 16, 2001. This is being funded by the Chesapeake Bay Program Science and Technical Advisory Committee, developed by the Low Impact Development Center, and managed by the DC WPD. The 75 respondents represent private engineering and architectural firms, Federal and District regulatory agencies, local nonprofit organizations, and local university students.
- ▶ Coordinated a Low Impact Development Workshop to be held January 19, 2001. This is a hands-on technical training for WPD plan review, and inspection and enforcement staff.

Objective 3: Support Actions to Reduce the Amount of Fecal Coliform Bacteria to District of Columbia Surface and Ground Waters

Milestone A: *Develop formal reporting procedures to ensure rapid repair of leaking sewer lines (agency: MS4 Administrator)*

PROGRESS:

- ▶ No report on this activity is currently available.

Milestone B: *Develop a brochure on proper pet waste disposal for distribution to pet owners in the District of Columbia and for distribution to pet stores and veterinarians (agency: EHA - WPD)*

PROGRESS:

- ▶ The brochure has been printed. WPD plans to distribute it to veterinarians, pet stores and DC Animal shelters.

Objective 4: Fund Programs and Promote Activities That Work to Reduce the Amount of Trash on Streets, Sidewalks and in District Waters

Milestone A: *Continue sidewalk, curb and catch basin cleaning activities in all areas of the city by maintaining or increasing funding levels for these activities (agencies: DPW, WASA)*

PROGRESS:

- ▶ WASA has established a program to conduct a systematic clean up of all the catch-basins in the combined and separated sewer areas in the District. New equipment is being procured to enhance this work.

Milestone B: *Encourage public to practice proper disposal practices by distributing garbage bags for cars at vehicle inspection lanes and vehicle registration offices (agency: DPW)*

PROGRESS:

- ▶ The lead agency for this milestone is DMV, and not DPW. At the time of this reporting, no contact person at DMV has been established to report this information.

Milestone C: *Empty city-owned garbage cans throughout the city regularly by maintaining funding levels for this activity (agency: DPW)*

PROGRESS:

- ▶ In 2000, DPW took several steps to improve services for the purpose of elimination the problem of “overflowing cans”:
 - ✓ \$478,000 was invested in the replacement of 340 damaged cans, and the purchase and placement of 200 new cans;

- ✓ collection schedules were realigned for the purpose of preventing can overflow;
- ✓ solid waste inspectors have been working on nights and weekends to identify individuals and companies who have been illegally depositing private waste, and issued 25 tickets in 2000;
- ✓ and two collection crews were added during daytime hours on Saturdays and Sundays in high volume trash accumulation areas of the District.

Milestone D: *Remove floating trash from the Anacostia River with the skimmer boat by maintaining funding levels for this activity (agency: WASA)*

PROGRESS:

- ▶ 600 tons of trash were skimmed from the Anacostia River in 2000.
- ▶ WASA is in the process of procuring additional equipment for this activity.

Milestone E: *Install a Trash Netting System that demonstrates end-of-pipe control of trash delivered from the storm sewers to the Anacostia River. (2000) (agency: WASA)*

PROGRESS:

- ▶ DC WASA funded the installation and maintenance of a demonstration trash netting system at an outfall on the tidal portion of the Anacostia River in the Spring of 2000.
- ▶ Five hundred thousand (500,000) dollars was placed in the DC Budget to fund several end-of-pipe pollution controls including a trash netting system. This will be installed at a large outfall on the tidal Anacostia in Spring 2001.

Objective 5: Expand Efforts to Reduce the Amount of Sediment to District of Columbia Surface Waters.

Milestone A: *Promote a policy of net gain of wetlands/no net loss of wetlands (agency: DOH - EHA)*

PROGRESS:

- ▶ This is complete. The wetlands will be reexamined in 2001-2002 and location of wetlands that were not originally listed will be determined using both physical and biological data.

Milestone B: *Actively participate in the planning, management and implementation of a multi-agency project with partners to restore wetlands in Kingman Lake (project currently underway) (agencies: EHA - WPD, USACE, USNPS)*

PROGRESS:

- ▶ Over 40 acres of emergent freshwater tidal wetlands were restored in the Kingman Lake area in 2000.

Milestone C: *Actively participate in the planning, management and implementation*

of a multi-agency project with partners to restore fringe wetlands to the banks of the tidal portion of the Anacostia River (agencies: EHA - WPD, USACE, USNPS)

PROGRESS:

- ▶ Proposed amendments to existing MOU with USACE to begin work on fringe wetlands
- ▶ Identified funding sources
- ▶ Met with USNPS to gain official support for all projects to be implemented on Park Service land
- ▶ Conducted field visits to all sites

Milestone D: *Actively participate in the planning, management and implementation of a multi-agency project with partners to daylight Popes Branch, a tributary of the Lower Anacostia (agencies: EHA - WPD, USNPS, USACE)*

PROGRESS:

- ▶ USACE obtained funding to perform feasibility study, design and implementation under the section 206 program. USACE will pay 65%, the District will pay 35%.
- ▶ Met with USNPS to discuss projects and obtain initial buy-in
- ▶ Conducted site visit of project area
- ▶ Reviewed historical location of Pope Branch and tidal estuary that existed in that portion of Anacostia Park

Milestone E: *Actively participate in the planning, management and implementation of a multi-agency project with partners to retrofit a suitable site in the Anacostia watershed with demonstration technology that combines an end-of-pipe BMP with an artificial wetland to treat runoff (agencies: EHA -WPD, USACE, USNPS)*

PROGRESS:

- ▶ Negotiating with USACE to perform feasibility study this year
- ▶ Will generate RFP for design and implementation

Milestone F: *Actively participate in the planning and management of a feasibility study for a multi-agency project with partners to reduce the erosive force of storm water in Fort Dupont Creek. This project will demonstrate a type of dry pond to control the peak flow conditions causing erosion (agencies: EHA/WPD, USNPS, MWCOG, USGS, USACE)*

PROGRESS:

- ▶ Signed agreement with USNPS
- ▶ Phase II, hydrological assessment (funded by USGS and implemented by MWCOG) scheduled for completion
- ▶ Received USACE 206 funding to conduct initial phase of restoration under their Aquatic Restoration program
- ▶ Met with USNPS to ensure support of stormwater BMP, based on MWCOG Phase II

report.

Milestone G: *Conduct a feasibility study and blueprint for the treatment of overflow of combined sewers into the Anacostia River from the federal facilities on the Mall (agencies: EHA - WPD, WASA, USNPS, USACE)*

PROGRESS:

- ▶ EHA WPD has an MOA with USACE to conduct this study.

Milestone H: *Develop a sand filter maintenance handbook (agency: EHA - WPD)*

PROGRESS:

- ▶ This handbook and an accompanying video are in the final editing stage

Objective 6: Initiate Activities Designed to Bring the District into Compliance with the Requirements of the MS4 NPDES Permit, Including Establishing Appropriate Funding Mechanisms.

PROGRESS:

- ▶ On September 13, 2000, a bill known as the Storm Water Permit Compliance Amendment Act of 2000 was introduced before DC Council. This bill is intended to amend legislation, thereby allowing WASA to engage in certain MS4 permit compliance activities including creation of a storm water administration. This bill is expected to receive favorable consideration from the Council, the Mayor and the Financial Responsibility and Management Assistance Authority. This bill is expected to become law shortly.
- ▶ On December 14, 2000, an MOU between DC DOH, DC DPW and DC WASA governing the coordination of MS4 permit compliance actions was signed by all parties.
- ▶ The MOU identified DC WASA as the Storm Water Administrator, and set up a Storm Water Task Force.
- ▶ The Compliance Matrix attached to the MOU identifies all tasks to be completed, the responsible agencies, and the due date.

Milestone A: *Submit annual storm water management plan (SWMP) that identifies the work to be done each year over the next three years as required by the MS4 permit. This will ensure that the District will receive funding for this project (agency: Storm water task force)*

PROGRESS:

- ▶ This document is scheduled for submission to EPA in April, 2001.

Milestone B: *Develop a dry-weather monitoring program for MS4 to locate suspected sources of illicit discharges (agency: Storm water task force)*

PROGRESS:

- ▶ This is scheduled for completion in April, 2002, in order that the findings be included in the April 2002 Annual Report.

Milestone C: *Develop a monitoring program for the MS4 program to estimate the effectiveness of control measures, pollutant loadings, and water quality improvements (agency: Storm water task force)*

PROGRESS:

- ▶ This is scheduled for completion in April, 2002, in order that the findings be included in the April 2002 Annual Report.

Objective 7: Develop and Begin Implementation of Restoration Plans for Approved Total Maximum Daily Loads (TMDLs) for Waterbodies on the § 303(d) List of Impaired Waters.

Milestone A: *Develop TMDLs for Hickey Run, the open portion of which drains the grounds of the National Arboretum (agency: EHA - WQD)*

PROGRESS:

- ▶ A TMDL for Hickey Run is complete and approved by EPA.
- ▶ Installation of oil booms is the first implementation step for TMDL compliance. Funding for this step was included in the 2001 DC Budget.

Milestone B: *Develop TMDLs for other waters of the District of Columbia on the 303(d) list of impaired waters on a schedule jointly agreed upon the District and USEPA (agency: EHA - WQD)*

PROGRESS:

- ▶ This is a future task
- ▶ EHA-WQD is currently negotiating with USEPA on the BOD TMDL for the portion of the Anacostia River that lies within the District's boundaries.

Objective 8: Incorporate the Concepts of Low Impact Development into the District of Columbia Planning and Construction Process

Milestone A: *Train plan review staff in low impact development techniques (lead agency: EHA - WPD)*

PROGRESS:

- ▶ Coordinated a Low Impact Development Workshop to be held January 19, 2001. This is a hands-on technical training for WPD plan review, and inspection and enforcement staff.

Milestone B: *Hold a workshop for developers/architects/designers that presents the multiple possibilities to incorporate LID approaches, and financial benefits to the developer that LID offers (agency: EHA - WPD)*

PROGRESS:

- ▶ Coordinated Low Impact Development Workshop scheduled for January 16, 2001. This is being funded by the Chesapeake Bay Program Science and Technical Advisory Committee, developed by the Low Impact Development Center, and managed by the DC WPD. The 75 respondents represent private engineering and architectural firms, Federal and District regulatory agencies, local nonprofit organizations, and local university students.

Milestone C: Identify regulatory and organizational impediments to low-impact development designs in order to encourage the use of LID approaches that minimize water quality and quantity impacts (agency: EHA - WPD)

PROGRESS:

- ▶ As a result of our July 2000 RFP, the Natural Resources Defense Council was awarded a subgrant to review District laws, regulations and codes to identify impediments to LID implementation in the District, to produce a report detailing the impediments and to make recommendations for changes that would work to encourage LID.
- ▶ A more appropriate measure than that listed in the *NPS Management Plan II* is a completed report, and the number of District official to whom this report has been formally presented.

Milestone D: Encourage sound land use planning & practices that address impacts of growth, development & transportation on the watershed (agency: SWCD)

PROGRESS:

- ▶ The SWCD served as the selection committee for WPD's July 2000, RFP. Many of the projects they chose to fund addressed sound use planning, including: "Monitoring the Effectiveness of Multiple BMPs on a High-Use Impervious Area/Parking Lot in Anacostia/Oxon Run Watersheds", "Anacostia River Business Coalition Watershed Stewardship Program", "Impediments to Low Impact Development in the District of Columbia", and "A Public-Private Partnership to Demonstrate Low Impact Development on Capitol Hill".

Objective 9: Support Activities Aimed at Reducing the Amount of Untreated Storm Water from Construction Sites Greater than 5,000 Square Feet.

Milestone A: Review Building Permit Applications (minor and major construction) submitted to the District of Columbia Government for compliance with the storm water management regulations (agency: EHA - WPD)

PROGRESS:

- ▶ 416 plans reviewed

- ▶ 139 plans approved

Milestone B: *Review Building Permit Applications (minor and major construction) submitted to the District of Columbia Government for compliance with the soil erosion and sedimentation control regulations (agency: EHA - WPD)*

PROGRESS:

- ▶ 1617 plans reviewed
- ▶ 1340 plans approved

Milestone C: *Provide technical assistance to developers and the general public on storm water management related issues (agency: EHA - WPD)*

PROGRESS:

- ▶ A total of 2141 responses were provided to inquiries from developers and the general public. The assistance included guidance in erosion/sediment control and storm water management systems as well as soils information (review and approval of 52 geotechnical reports) related to the proper selection and design of stormwater infiltration systems.

Milestone D: *Conduct routine inspections of construction sites for compliance with approved plans and regulations (agency: EHA - WPD)*

PROGRESS:

- ▶ 5172 of these inspections were performed in FY 2000

Milestone E: *Revise the storm water management guidebook (standards/specifications) as needed to keep pace with rapidly emerging technologies (2001) (agency: EHA - WPD)*

PROGRESS:

- ▶ The first phase of this document will be completed by March 2001.

Milestone F: *Revise the soil erosion and sedimentation management guidebook (standards/specifications) as needed to keep pace with rapidly emerging technologies (2001) (agency: EHA - WPD)*

PROGRESS:

- ▶ The District of Columbia is currently making contractual arrangements to revise and update its soil erosion and sedimentation control standards and specifications.

Milestone G: *Revise and update the storm water management regulations as needed to strengthen the District watershed protection program and to keep pace with the changing landscape of storm water management (agency: EHA - WPD)*

PROGRESS:

- ▶ No work was done of this milestone in FY 2000. Efforts will be made to complete revision to the regulations in FY 2001.

Milestone H: *Inspect BMPs for compliance with the soil erosion and sedimentation control program (agency: EHA - WPD)*

PROGRESS:

- ▶ This is an ongoing task. Inspectors are required to monitor sediment and erosion control BMPs to ensure that they are installed and maintained in accordance with the approved plans. Each inspection report details the BMPs monitored, indicates failures, and documents enforcement actions taken in accordance with the established protocol. The total number of sediment and erosion control BMPs inspected are not tabulated.

Milestone I: *Place storm water management and soil erosion and sedimentation regulations, manuals, etc. on the Internet for easy access by developers, contractors and homeowners. (agency: EHA - WPD)*

PROGRESS:

- ▶ This is a future task.

Objective 10: Work to Reduce the Quantity and Improve the Quality of Untreated Storm Water Entering District Waters by Strengthening Compliance with the District of Columbia's Soil Erosion and Sediment Control Program.

Milestone A: *Automate the inspection and enforcement tracking process (agency: EHA - WPD)*

PROGRESS:

- ▶ Separate automated database systems were developed for tracking inspection and enforcement. Both databases are fully operational, enabling more efficient rescheduling of inspections and retrieval of inspection and enforcement records.

Milestone B: *Initiate development of a certification program for contractors working in the District in the area of soil erosion and sedimentation control (agency: EHA - WPD)*

PROGRESS:

- ▶ This is a future task. No staff is currently available to perform this work.

Milestone C: *Train staff in civil infractions enforcement procedures (agency: EHA - WPD)*

PROGRESS:

- ▶ Staff obtained department-wide training as well as program specific training in FY 2000.

Milestone D: *Issue fines and notice of infractions (NOI) for non-compliance with soil*

erosion regulations (agency: EHA - WPD)

PROGRESS:

- ▶ 147 NOIs were issued in FY 2000 for both soil erosion and storm water management regulations. (NOTE: We do not track soil erosion and storm water management violations separately.)

Milestone E: *Conduct routine and specialized inspections of construction sites for compliance with the soil erosion and sedimentation control regulations (agency: EHA - WPD)*

PROGRESS:

- ▶ 4165 of these inspections were performed.

Milestone F: *Investigate erosion, drainage and related complaints and take the necessary action(s) to resolve them (agency: EHA - WPD)*

PROGRESS:

- ▶ 100% of complaints were investigated in FY 2000. 66% of these were resolved.

Objective 11: Work to Reduce the Quantity and Improve the Quality of Untreated Storm Water Entering District Waters by Strengthening Compliance with the District of Columbia's Storm Water Management Program.

Milestone A: *Automate the plan review process including electronic filing of storm water management facility As-Built plans (agency: EHA - WPD)*

PROGRESS:

- ▶ WPD personnel created an electronic filing system that tracks development through the entire plan review and approval process, including the filing of storm water management facility As-built plans. This system is currently in-use; however, data from the backlog of closed cases from the time period that precedes creation of the electronic filing system is still being entered into the system.

Milestone B: *Develop a certification for contractors working in the District to maintain storm water facilities (agency: EHA - WPD)*

PROGRESS:

- ▶ Qualification protocols were developed and are being implemented.
- ▶ 10 contractors qualified to perform maintenance services in FY 2000.
- ▶ Development of an official certification program is a future task.

Milestone C: *Train staff in civil infractions enforcement procedures as needed (agency: EHA - WPD)*

PROGRESS:

- ▶ All enforcement staff received training in civil infractions enforcement procedures in

2000; however, this is not complete as it is an ongoing task.

Milestone D: *Issue fines and Notice of Infraction (NOI) for non-compliance with storm water regulations (agency: EHA - WPD)*

PROGRESS:

- ▶ 147 NOIs were issued in FY 2000 for both soil erosion and storm water management regulations. (NOTE: We do not track soil erosion and storm water management violations separately.)

Milestone E: *Review and approve As-Built plans of storm water management facilities for compliance with design standard and specifications (agency: EHA - WPD)*

PROGRESS:

- ▶ This is an ongoing task. These plans are required upon project completion.

Milestone F: *Conduct routine and specialized inspections of construction sites for compliance with storm water management regulations (agency: EHA - WPD)*

PROGRESS:

- ▶ 1007 of these inspections were completed in FY 2000.

Milestone G: *Establish a BMP tracking program and conduct preventive maintenance inspections of storm water management facilities to ensure proper functioning of these facilities (agency: EHA - WPD)*

PROGRESS:

- ▶ This program was established in December of 1999. WPD dedicates one full time inspector to perform these duties.
- ▶ WPD staff developed standardized maintenance inspections forms in order to provide a consistent framework for BMP covenant compliance.

Milestone H: *Gather data on the efficiency of storm water management facilities, including new and innovative BMPs before they are adopted (agency: EHA - WPD)*

PROGRESS:

- ▶ EHA WPD issued an RFP for comparison of effluent water quality from an underground sand filter and a biofiltration 'raingarden'. This work was awarded to Howard University School of Engineering, and will be performed in 2001.
- ▶ EHA WPD is collecting and compiling literature on the efficiency of storm water management facilities.

Objective 12: Continue to Support Flood Plain Management Activities that Effectively Reduce Flood Risks in the District of Columbia by Ensuring that Development is in

Compliance with Flood Hazard Regulations

Milestone A: *Enforce the District's flood hazard regulations (agency: EHA - WPD)*

PROGRESS:

- This is an ongoing activity. Projects that are either partly or wholly located in floodplain areas are reviewed for strict compliance with the District's flood hazard and building code regulations.

Milestone B: *Revise flood hazard regulations on as-needed basis (agency EHA - WPD)*

PROGRESS:

- There is currently no need to revise the District's flood hazard regulations.

Milestone C: *Provide technical assistance on flood plain management related issues (agency: EHA - WPD)*

PROGRESS:

- 41 responses were provided to the public for requests related to flood zone designations for various properties/projects.

Milestone D: *Coordinate flood plain management activities with the D.C. Emergency Management Agency, Federal Emergency Management Agency, the Association of Flood Plain Managers and the National Flood Insurance Program (agency: EHA - WPD)*

PROGRESS:

- Technical assistance was provided to DC EMA resulting in facilitating the production of a draft report entitled "Technical Guidance for Flood Hazard Mitigation in Washington, DC". The report, which was produced by Dewberry and Davis (consulting), involves evaluating and prioritizing flood prone areas in the District for possible mitigation action.

Milestone E: *Review flood plain management studies/reports (agency: EHA - WPD)*

PROGRESS:

- This report was reviewed, and comments were sent to DC EMA for incorporation in the final report.

Objective 13: Work to Reduce Deposition of Nutrients and Toxics from Air Pollutants the Washington Metropolitan Region (DC, MD, VA) by Supporting Efforts to Attain the One Hour Ozone Standard in Accordance with the Clean Air Act Amendments of 1990, by FY 2005

Milestone A: *Actively participate in MWAQC to coordinate the Phase II Plan for attainment of the one-hour ozone standard in the DC-MD-VA region (agency: EHA - AQD)*

PROGRESS:

- ▶ AQD staff attend monthly meetings of MWAQC.
- ▶ Attainment of VOC emissions reductions of 209 tons/day (see milestone C) and NOx emissions of 129 tons/day (milestone D) will automatically bring attainment of the one-hour ozone standard.

Milestone B: Submit to USEPA a demonstration using an urban air quality model to show that ozone concentrations will be reduced to levels below the federal standard by FY 2005 (agency: EHA - AQD)

PROGRESS:

- ▶ This demonstration was submitted to USEPA in 2000, and will be approved by USEPA in 2001.

Milestone C: Reduce nonpoint source emissions VOCs by 209 tons/day by FY 2005 (agency: EHA - AQD)

PROGRESS:

- ▶ Analysis of 1999 models predict the attainment of VOC emissions reductions of 209 tons/day by FY 2005.
- ▶ AQD performs a periodic inventory of pollutant loads from stationary and mobile sources.
- ▶ Mid-course corrections using more current pollutant loading data will be submitted to USEPA in FY 2003.

Milestone D: Reduce nonpoint source emissions of NOx by 129 tons/day by FY 2005 (agency: EHA - AQD)

PROGRESS:

- ▶ Analysis of 1999 models predict the attainment of NOx emissions reductions of 129 tons/day by FY 2005.
- ▶ AQD performs a periodic inventory of pollutant loads from stationary and mobile sources.
- ▶ Mid-course corrections using more current pollutant loading data will be submitted to USEPA in FY 2003.

GOAL B. Support programs and activities that strive to restore and maintain healthy habitat, species diversity, and water flows to all of the tributaries of the Anacostia River by 2015, and to all surface waters of the District of Columbia by 2025, by restoring degraded systems and preserving healthy and threatened ones.

Measure: % of total stream miles, wetland acres, or estuary acres restored and preserved.

Objective 1: Adopt a Policy of No Net Loss of Wetlands.

Milestone A: *Identify location and types of existing wetlands within the District through the review of existing reports, maps, and color infrared aerial photographs and periodic field reconnaissances to collect information on hydrology, vegetation, soils, location, acreage, water quality characteristics, sediment characteristics, and biological characteristics for each wetland (agency: EHA)*

PROGRESS:

- This is complete. The wetlands will be reexamined in 2001-2002 and location of wetlands that were not originally listed will be determined using both physical and biological data.

Milestone B: *Identify ongoing and current impacts to wetlands in the District through review of historical and existing reports; field reconnaissances to identify ongoing impacts; and qualitative evaluation of the functions and values of existing wetlands (agency: EHA)*

PROGRESS:

- This work was performed for the 1997 Wetlands Conservation Plan. This work will be updated with current physical and biological information in 2001-2002.

Milestone C: *Develop and implement wetland protection regulations which strictly limit impacts and disturbances to wetlands and requires a minimum one-to-one mitigation for unavoidable impacts (agency: EHA - WPD - WQD)*

PROGRESS:

- EHA is currently working amend the D.C. Water Pollution Control Act of 1984 to set up the mechanism for a mitigation fund.
- The wetlands regulations have been drafted and are under review by District counsel.
- This milestone is predicted to be completed in 2001

Objective 2: Promote Overall Net Gain of Wetlands.

Milestone A: *Identify potential restoration, creation, and expansion opportunities within the District through meetings with the wetland stakeholders; and identify current and planned wetland restoration programs and projects within the District (lead agency: DOH - EHA)*

PROGRESS:

- Over 40 acres of emergent freshwater tidal wetlands were restored in the Kingman Lake area in 2000

- ▶ DOH-EHA is meeting with wetland stakeholders, USACE and USNPS, to plan the restoration of 30 acres of tidal fringe marsh restoration on the Anacostia River. Community involvement is also being planned.

Milestone B: *Identify potential sources of funding for wetland restoration, creation, and expansion projects including Federal and multi-jurisdictional funding sources (lead agency: DOH - EHA)*

PROGRESS:

- ▶ The District has actively and successfully pursued federal funding through USACE for planning, feasibility, design and implementation of wetland restoration projects in both tidal and nontidal areas. USEPA nonpoint source 319 funds as well as District capital funds have all been combined to implement past and future planned wetland restoration projects.

Milestone C: *Develop and implement wetland protection regulations which require greater than one-to-one mitigation for unavoidable impacts to high-value wetlands (lead agency: DOH - EHA)*

PROGRESS:

- ▶ EHA is currently working to amend the *D.C. Water Pollution Control Act of 1984* to set up the mechanism for a mitigation fund.
- ▶ The wetlands regulations have been drafted and are under review by District counsel.

Milestone D: *Work with the National Park Service and USACE toward restoration of approximately 30 acres of Anacostia fringe wetland (2000) (agency: EHA - WPD)*

PROGRESS:

- ▶ DOH-EHA reviewed existing MOU with USACE and proposed amendment from USACE to begin work on fringe wetlands. This review is being coordinated with DC Corporation Counsel for submittal to council for approval.
- ▶ Met with NPS to gain official support of all projects on National Park Service land

Milestone E: *Complete feasibility for Anacostia fringe wetland construction (2001) (agency: EHA - WPD)*

PROGRESS:

- ▶ The feasibility study is currently in process.

Milestone F: *If recommended by the feasibility report, begin construction on Anacostia fringe wetlands (2002) (agency: EHA - WPD)*

PROGRESS:

- ▶ This is a future task.

Milestone G: *Complete construction on Anacostia fringe wetlands (2003) (agency: EHA)*

- WPD)

PROGRESS:

- ▶ This is a future task.

Milestone H: *Develop a plan for Lower Anacostia River Park under the USNPS which will restore several acres of demonstration/public education tidal wetlands, and create several small storm water treatment nontidal wetlands within the park (agency: EHA - WPD, NPS)*

NOTE: The Lower Anacostia Park Project includes the Pope's Branch restoration project, hence the progress, reported below, is identical to that reported in Goal A, Objective 5, Milestone D

PROGRESS:

- ▶ USACE obtained funding to perform feasibility study, design and implementation under the section 206 program. USACE will pay 65%, the District will pay 35%.
- ▶ Met with USNPS to discuss projects and obtain initial buy-in
- ▶ Conducted site visit of project area
- ▶ Reviewed historical location of Pope Branch and tidal estuary that existed in that portion of Anacostia Park

Objective 3: Support Modification/Stabilization Projects on Eroding Streams.

Milestone A: *Coordinate a multi-agency project in the Watts Branch Watershed to restore about 2 stream miles of degraded habitat (agency: EHA - WPD)*

PROGRESS:

- ▶ DOH-EHA is cooperating with NRCS and USFWS to complete this milestone
- ▶ NRCS plans for stabilization of multiple eroded sites in Watts Branch are in the permitting process. Implementation is set for Spring 2001. The District is funding one hundred thousand (100,000) dollars, and NRCS is contributing work in-kind.
- ▶ DOH-EHA has received a Scope of Work from USFWS for a complete stream restoration on Watts Branch. The goal is to return the stream to a stable, self-maintaining state.
- ▶ An MOU between DOH-EHA and USFWS for Watts Branch stream restoration is currently under negotiation.

Milestone B: *Assess the success of the Watts Branch Restoration Effort (agency: EHA - WPD)*

PROGRESS:

- ▶ This is a future task.

Milestone C: *Conduct scheduled ambient monitoring of Watts Branch (agency: EHA - WPD)*

PROGRESS:

- ▶ All pre-restoration physical and biological monitoring is complete. Biological analysis is being performed under a subgrant agreement, and is currently in progress. The physical analysis is being performed in-house, and is also currently in progress.
- ▶ The pre-restoration hydrological monitoring will be performed by USFWS, beginning in Spring 2001, and ending in Spring 2002.

Milestone D: Coordinate a multi-agency project for the restoration of Fort Chaplin Stream (agency: EHA - WPD)

PROGRESS:

- ▶ Review proposals submitted in response to WPD's RFP for this work, but none was selected. More proposals will be sought during the next RFP.
- ▶ Currently exploring other sources of federal funding to leverage through USACE Section 206 environmental program or in-kind services from other federal agencies, such as USFWS or NOAA

Milestone E: Coordinate the restoration of Fort Dupont Creek (2001) (agency: EHA - WPD)

PROGRESS:

- ▶ Executed and agreement with USNPS
- ▶ Phase II, hydrological assessment (funded by USGS and implemented by MWCOG) scheduled for completion
- ▶ Received USACE Section 206 funding to conduct initial phase of restoration under their Aquatic Restoration program
- ▶ Met with NPS to ensure support of stormwater BMP, based on MWCOG Phase II report

Milestone F: Complete assessment of Fort Dupont Creek (2001) (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.

Milestone G: If feasible, complete designs for Fort Dupont Creek restoration (2001) (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.

Milestone H: If feasible, begin construction of Fort Dupont Creek restoration (2002) (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.

Milestone I: Complete Fort Dupont Creek restoration (2003) (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.

Objective 4: Maintain or Increase Support for Programs and Activities That Function to Increase Forest Cover in the District of Columbia.

_____ *Milestone A: Prepare a Riparian Buffer Enhancement Strategy for the District of Columbia (FY 2001) (agency: EHA - WPD)*

PROGRESS:

- ▶ Final draft completed, December 2000

_____ *Milestone B: Create a GIS database to track past and future riparian forest buffer restoration sites in the District, and all other information necessary to target future reforestation sites with high potential for success (agency: EHA - WPD)*

PROGRESS:

- ▶ A GIS project that maps both completed and in-progress watershed restoration projects in the District has been created within WPD, and is currently being updated with riparian forest buffer restoration information. This information will be available in a unique RFP layer by performing a 'query'.

_____ *Milestone C: Provide educational documents and opportunities for citizens, community groups, students and land managers, so that they might understand the need for REBS and participate in their restoration (agency: EHA - WPD)*

PROGRESS:

- ▶ WPD coordinated 100 volunteers for RFP maintenance in the Fall of 2000. Buffers that had been installed in the Spring of 2000 and the Fall of 1999 were inspected for disease, damage and mortality, removed if necessary, and replaced with new saplings. The entire planting was mulched and watered (with a natural and voluminous rain event). All volunteers received educational documents explaining the importance of REBS, and received instruction in how to plant trees.

_____ *Milestone D: Coordinate the restoration and protection of riparian buffers throughout the District of Columbia (agency: EHA - WPD)*

PROGRESS:

- ▶ WPD coordinated and funded the planting of 600 native trees and shrubs in Watts Branch, a tributary of the Anacostia and a target watershed, in April of 2000. WPD held a RFP maintenance day for this and previous RFP plantings in Watts Branch in August of 2000.

_____ *Milestone E: Plant 5,000 trees per year (not including riparian reforestation) in the District for the next three years (agency: DPW)*

PROGRESS:

- ▶ DPW planted 4,000 trees in FY 2000, and will plant the additionally promised 1,000 trees in 2001 along with the 5,000 already scheduled for installation.

Objective 5: Advance programs that work to develop watershed action strategies for the tributaries in the Anacostia watershed.

Milestone A: Develop and implement a subwatershed action strategy which evaluates, ranks and recommends the District's streams and their watersheds for appropriate use and restoration potential (agency: EHA - WPD)

PROGRESS:

- ▶ A WRAS has been written for the Lower Anacostia River (that which lies inside the boundaries of the District of Columbia). This was submitted to EPA in draft form in December 2000.

Milestone B: Use Watts Branch Watershed restoration as a demonstration project with which to design watershed action strategies for District tributaries that have already been identified for future action (agency: EHA - WPD)

PROGRESS:

- ▶ The Watts Branch environmental restoration and education initiative is a long-term, ongoing project that has confronted the full spectrum of challenges presented by an ultra urban, low income, aging community. Since Watts Branch was our first restoration effort, it has presented us with many learning experiences. It has helped us to identify the most effective partners for restoration work and for outreach programs, the adjustments that need to be made to preferred planting designs to gain the support of the community,

Milestone C: Pope's Branch Watershed (FY 2001) (agency: EHA - WPD)

PROGRESS:

- ▶ In July 2000, WPD awarded a grant to the Metropolitan Washington Council of Governments to perform a baseline stream assessment for Pope Branch. This is a necessary first step to creating a WRAS for Pope Branch.

Milestone D: Nash Run Watershed (FY 2002) (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.

Milestone E: Fort Dupont Watershed (FY 2003) (agency: EHA - WPD)

PROGRESS:

- ▶ A WRAS for Fort Dupont was completed in July, 2000.

Milestone F: Fort Chaplin Watershed (FY 2004) (agency: EHA - WPD)

PROGRESS:

- ▶ WPD publicized a request for proposals to perform a baseline stream assessment for Fort Chaplin. No award was made, hence the request will be repeated during the next grant cycle. This assessment is a necessary first step to creating a WRAS for Fort Chaplin Watershed.

Milestone G: Complete watershed action strategies for all watersheds of third order (and higher) streams in the District of Columbia (FY 2015) (agency: EHA - WPD)

PROGRESS:

- ▶ A WRAS for Hickey Run was completed in July, 2000.
- ▶ WPD awarded a subgrant for the baseline stream assessment of Fort Dupont. The collection of this data is a necessary prerequisite to the creation of a WRAS.
- ▶ WPD requested proposals for a baseline stream assessment of Fort Chaplin, but none was awarded. This request will be rebroadcast in the next RFP. The collection of this data is a necessary prerequisite to the creation of a WRAS.

Objective 6: Seek opportunities to daylight covered streams

Milestone A: Create a letter of intent for daylighting of Pope Branch signed by both partners (2001) (agency: EHA - WPD)

PROGRESS:

- ▶ An MOU between EHA-WPD and USACE is currently being drafted

Milestone B: Complete feasibility study for daylighting of Pope Branch (2001) (lead agency: EHA - WPD)

PROGRESS:

- ▶ USACE obtained funding to perform this feasibility study.

Milestone C: If feasible, complete design for daylighting of Pope Branch (2002) (agency: EHA - WPD)

PROGRESS:

- ▶ If feasible, USACE will design and to implement this under the Section 206 program, which will be funded 65% by USACE and 35% by DC

Milestone D: Commence construction for daylighting of Pope Branch (2003) (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.

Milestone E: Identify second stream for subsequent daylighting efforts (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.

Objective 7: Support efforts to restore the southern portion of Kingman Island to an environmentally friendly habitat

Milestone A: Conduct feasibility assessment (2001) (agency: DOH - EHA)

PROGRESS:

- ▶ WPD, in partnership with USACE, completed an initial site investigation to determine the extent of contamination on the island.
- ▶ WPD is currently coordinating the finalization of USACE Section 22 Feasibility study with DC Office of Planning, which will include design options for the island.

Milestone B: Complete assessment (December 2002) (agency: DOH - EHA)

PROGRESS:

- ▶ This is a future task.

Milestone C: Commence construction (2003) (agency: OOP, DPR)

PROGRESS:

- ▶ This is a future task.

Milestone D: Complete project (2004) (agency: DPR)

PROGRESS:

- ▶ This is a future task.

C. Coordinate D.C. NPS Management Program efforts with other District, federal and private sector programs, and adjoining jurisdictions to provide the best delivery of services to prevent and control nonpoint source pollution in the District of Columbia with the resources available.

Measure: # of stakeholders and annual D.C. NPS Management Program budget.

Objective 1: Support the District of Columbia Soil and Water Conservation District (SWCD) as a coordinating body for the D.C. Nonpoint Source Management Program.

Milestone A: Provide a forum for interagency discussion to assure that District agencies are addressing environmental concerns, and are in compliance with the Chesapeake 2000 Agreement (agency: EHA - WPD)

PROGRESS:

- ▶ WPD held six (6) SWCD Board meetings in FY 2000.

Milestone B: *Establish the citizens advisory committee (CAC) (agency: EHA - WPD)*

PROGRESS:

- ▶ Legislation that would allow the establishment of a CAC was passed into an act in December 2000, and is currently awaiting review by the Control Board.

Milestone C: *Prepare budget to fund SWCD for FY 2002 (2000) (agency: EHA - WPD)*

PROGRESS:

- ▶ EHA WPD staff and NRCS staff have been funded through our Chesapeake Bay Implementation Grant to support the DC Soil and Water Conservation District for 2002.

Milestone D: *Identify 1-2 implementation and education project to be sponsored by SWCD (2001) (agency: EHA - WPD)*

PROGRESS:

- ▶ In 2001, the WPD applied to USEPA for an education grant to conduct a schoolyard conservation project that will identify 2 to 4 sites for implementation.

Milestone E: *Implement identified project (2001) (agency: EHA - WPD)*

PROGRESS:

- ▶ This is a future task.

Milestone F: *Develop a 5 year Soil and Water Conservation Plan (2000) (agency: EHA - WPD)*

PROGRESS:

- ▶ Ray Ledgerwood from the National Association of Conservation Districts (NACD) held a capacity building training for the SWCD Board members. Mr. Ledgerwood assisted the Board in developing a five year plan. The completion of this milestone is dependant upon the input of the CAC, thus it is currently on hold.

Milestone G: *Identify potential projects for FY 2001-FY 2005 (2000) (agency: EHA - WPD)*

PROGRESS:

- ▶ The completion of this milestone is dependant upon the input of the CAC, thus it is currently on hold.

Objective 2: Encourage federal facilities in the District of Columbia to develop NPS management plans and manage the polluted runoff from their lands.

Milestone A: *Include a module in the Enforcement Guidelines for Soil Erosion and Sedimentation Control and Storm Water Management Regulations*

tailored for development projects on federal property (agency: EHA - WPD)

PROGRESS:

- ▶ The completion of this milestone is unnecessary as the 1994 amendment to District Soil Erosion and Sedimentation Control and Storm Water Management Regulations removed federal facilities exemption from compliance with these regulations. Since that time, permitting requirements are being enforced for development projects on federal properties.

Objective 3: Support programs that strive to increase stakeholder involvement in the development and implementation of watershed action strategies

Milestone A: *Aid the Anacostia River Business Coalition (ARBC) in planning their environmental restoration and education efforts, and gain their financial and volunteer support for all habitat restoration projects occurring on the Anacostia River or its tributaries (agency: EHA - WPD)*

PROGRESS:

- ▶ Gilda Allen of WPD sits on the Board of the ARBC. She or her alternate actively participated in every meeting of the ARBC held in FY 2000.
- ▶ ARBC members were solicited for volunteer labor and materials donations for the Watts Branch riparian forest buffer (RFP) plantings held in April 2000, for the Watts Branch stream clean-ups held in March 2000, for the Watts Branch RFP maintenance day in August 2000, and for “Watts Branch Day”, a community education event, held in October 2000.
- ▶ WPD supported the ARBC May 2000 street cleaning event with volunteer labor, supplies and organizing activities.
- ▶ In April 2000, WPD assisted ARBC in assessing member properties to locate possible sites for a bio-retention demonstration project. WPD funded the design and educational signage for the first of these projects.
- ▶ In July 2000, WPD awarded a small grant of funds to the ARBC outreach campaign. This campaign is designed to target businesses in the Anacostia watershed for non point source pollution education.

Milestone B: *Attend meetings of the Area Neighborhood Commission to apprise local residents of habitat restorations, planned and in progress, that are occurring in their watershed, and gain their input and support (agency: EHA - WPD)*

PROGRESS:

- ▶ For each WPD sponsored event in Watts Branch, an informational flyer was circulated to watershed residents in a door-to-door campaign and posted in local churches and businesses. WPD staff attended meetings of the Northeast Boundary Civic Association, the Marshall Heights Civic Association, and meetings of the Town Hall to share

information about the Watts Branch Initiative activities.

Milestone C: Coordinate the Watts Branch Watershed Initiative, a comprehensive restoration project involving citizen's participation and education (agency: EHA - WPD)

PROGRESS:

- ▶ EHA WPD organized volunteer trash clean-ups in Watts Branch watershed on March 18, 2000, August 23, 2000, and October 7, 2000.
- ▶ A volunteer RFP planting was held on April 2 & 4, 2000, and RFP maintenance day was performed by volunteers on August 23, 2000.
- ▶ On October 7, 2000, EHA WPD held "Watts Branch Day". This was a one day festival designed to serve as a vehicle for environmental education. Over 100 Watts Branch residents attended to help clean the stream, plant vegetation at the recreation center, and join in a program of family fun that delivered a strong message on nonpoint source pollution prevention.
- ▶ EHA WPD published a Spring 2000 Watts Branch newsletter called "The Stream Keeper". This reported on all the environmental activities taking place in the Watts Branch Watershed.

Milestone D: Attend community outreach meetings to identify new watershed coalitions/groups and provide organizational support (agency: EHA - WPD)

PROGRESS:

- ▶ EHA WPD attended several community outreach meetings organized by the Office of Planning to gain public input into the restoration of Kingman Island.
- ▶ EHA WPD staff participated in a public charrette organized by DC Office of Planning to look at constructing a bicycle path along the Anacostia River.

Milestone E: Develop a video on watershed coalition building and District of Columbia success stories (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.

Milestone F: Provide subgrants to universities and other nonprofits involved in nonpoint source pollution control and prevention to increase stakeholder involvement and maximize resources (agency: EHA - WPD - WQD)

PROGRESS:

- ▶ In response to the EHA WPD July 2000 RFP, The Potomac River Commission and the Anacostia River Business Coalition was awarded a grant for a watershed stewardship campaign that targets businesses in the Anacostia watershed.

Objective 4: Support programs that work with adjoining jurisdictions to reduce nonpoint source pollution from upstream sources.

Milestone A: Actively participate in the USEPA Chesapeake Bay Program subcommittees that focus on nutrient, toxic, and urban sources of pollution, as well as the implementation committee and the Local Government Advisory Committee (LGAC) (agency: EHA)

PROGRESS:

- ▶ In 2000, Mayor Anthony Williams was elected to Chair of the CBP Executive Committee
- ▶ Sheila Besse was appointed to Local Government Advisory Committee.
- ▶ Jim Collier chairs the Modeling Committee.
- ▶ DOH Director Ted Gordon chairs the CBP Principals Staff Committee
- ▶ Jim Collier and Hamid Karimi represent the District on the Implementation Committee
- ▶ The District has representation most committees of the CBP, including the Nutrient Subcommittee, LGAC, the Toxics committee and subcommittee, the Communication and Outreach Committee, etc.
- ▶ The District is represented on the Environmental Justice, Watershed Protection and Urban Stormwater Task Forces, which were created to coordinate implementation of the *Chesapeake 2000 Agreement*.

Milestone B: Actively participate as a member of the Board of the Interstate Commission on the Potomac River Basin (ICPRB) (agency: EHA - WPD)

PROGRESS:

- ▶ WPD Program Manager Hamid Karimi actively participates as a member of the Board of the ICPRB.

Milestone C: Actively participate in meetings of the Anacostia Watershed Restoration Committee (AWRC) (agency: EHA - WQD)

PROGRESS:

- ▶ EHA Bureau of Environmental Quality Chief Jim Collier represents the District in meetings of the AWRC.

Milestone D: Actively participate in subcommittees of the Metropolitan Washington Council of Governments (MWCOCG) that pertain to NPS pollution and monitoring (agency: EHA - WPD - WQD)

PROGRESS:

- ▶ EHA WQD staff represent the District on the MWCOCG NPS pollution subcommittee.

Goal D. Carry out effective information and education campaigns on preventing nonpoint source pollution that reach at least 10,000 individuals each year to

targeted audiences who live, work, teach, or visit in the District of Columbia and its watersheds.

Measure: # of individuals educated or informed

Objective 1: Strengthen programs that seek to promote environmental education and stewardship for young people.

Milestone A: *Administer mini-grants for schoolyard conservation and water quality projects (agency: EHA - WPD)*

PROGRESS:

- ▶ Seventeen (17) Train the Trainer mini grants, totaling \$18,000 were awarded to participants of the EHA WPD Train the Trainer program. This fund was available to District school teacher who wished to implement an environmental education program or project in the classroom.

Milestone B: *Implement teacher training workshops for Project Learning Tree, Project Wet and Project Wild (agency: EHA - WPD)*

PROGRESS:

- ▶ A total of 186 teachers were trained in 13, six-hour *Project Learning Tree*, *Project Wet* or *Project Wild* workshops.

Milestone C: *Conduct outdoor environmental fairs for students (agency: EHA - WPD)*

PROGRESS:

- ▶ The annual Anacostia Environmental Fair was held on May 9, 2000. Approximately 1000 students participated in 40 activities/exhibits.

Milestone D: *Provide support to the D.C. Environmental Education Consortium (agency: EHA - WPD)*

PROGRESS:

- ▶ WPD provided articles for two newsletters.
- ▶ WPD co-sponsored workshops to assist them with outreach, name recognition and increased membership.
- ▶ The WPD staff chaired the program committee that assisted in the development of criteria for teachers to receive grants from the James O'Connor Fund, an environmental education staff development fund for District school teachers.
- ▶ WPD distributed hundreds of copies of *DC Naturally*, a guide to environmental education resources in the Washington DC Metropolitan area.

Milestone E: *Provide environmental learning fieldwork experiences for college interns and high school students (agency: EHA - WPD)*

PROGRESS:

- ▶ In 2000, WPD provided internship positions for five students of the University of the District of Columbia's College of Environmental Science.

Milestone F: Provide support to the Anacostia High School's Environmental Science and Technology Academy to help it improve its program activities (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.

Milestone G: Develop and maintain an environmental education resource center for teachers (agency: EHA - WPD)

PROGRESS:

- ▶ The environmental education resource center was established in October, 1999. In August and September of 2000, \$7,000.00 of materials were purchased to update the resource collection. In December of 2000, WPD staff mailed invitations for the resource center open house to D.C. public, private and charter school science and environmental educators. The center focuses on the conservation and protection of air, soil and water, and promotes environmental stewardship. The resource center holdings include curricula, books, audio-visuals materials, project kits, lab equipment, gardening tools, references, models, informational brochures, maps, posters and games. The open house was held on January 23, 2001, and was very well attended.

Objective 2: Support activities that function to build partnerships and coalitions with businesses, environmental and watershed groups, and other government agencies to develop a holistic approach to the prevention of nonpoint source pollution.

Milestone A: Coordinate the Watts Branch Watershed Initiative, a comprehensive restoration project involving citizen's participation and education (agency: EHA - WPD)

PROGRESS:

- ▶ EHA WPD organized volunteer trash clean-ups in Watts Branch watershed on March 18, 2000, August 23, 2000, and October 7, 2000.
- ▶ A volunteer RFP planting was held on April 2 & 4, 2000, and RFP maintenance day was performed by volunteers on August 23, 2000.
- ▶ On October 7, 2000, EHA WPD held "Watts Branch Day". This was a one day festival designed to serve as a vehicle for environmental education. Over 100 Watts Branch residents attended to help clean the stream, plant vegetation at the recreation center, and join in a program of family fun that delivered a strong message on nonpoint source pollution prevention.
- ▶ EHA WPD published a Spring 2000 Watts Branch newsletter called "The Stream

Keeper". This reported on all the environmental activities taking place in the Watts Branch Watershed.

Milestone B: Attend community outreach meetings to identify new watershed coalitions /groups and provide organizational support (agency: EHA - WPD)

Measure - Number of watershed coalitions organized/groups supported

PROGRESS:

- ▶ EHA WPD continued to provide support to watershed groups through its nonpoint source implementation grant. In 2000 seven organizations were selected for funding. Recipients include the Anacostia River Business Coalition, the Anacostia Watershed Society, the Carver Terrace Community Development Corp., the Environmental Conservation Corps, the Alliance for the Chesapeake Bay, the Lowell School, and the Capitol Hill BID.

Milestone C: Reinstate the Soil and Water Conservation District in FY 2000; develop and implement a 5-Year Soil and Water Conservation Plan (agency: EHA - WPD)

PROGRESS:

- ▶ EHA WPD held six SWCD Board meetings in FY 2000.
- ▶ The SWCD completed a one year plan and began a 5 year plan. A mission statement, goals and objectives and areas of concern were established.

Objective 3: Fund the development of a public awareness campaign to promote the care, protection and restoration of District waters. The medium of delivery will include print media, videos, Internet, and public service announcements on radio and TV. Outreach to citizens will include direct contact through workshops, meetings, etc.

Milestone A: Provide technical guidance to the Anacostia River Business Coalition for the expansion of their public awareness/education campaign that places posters on Metro busses/trains (agency: EHA - WPD)

PROGRESS:

- ▶ Nothing was done on this milestone in 2000. EHA WPD plans to work with the ARBC on this item in 2001.

Milestone B: Send out at least four press releases and/or articles annually for media exposure (agency: EHA - WPD)

PROGRESS:

- ▶ Press releases were sent in celebration of the Earth DAY Kick-off for the Kingman Lake Wetland Restoration, the Kingman Island Transfer Ceremony, and the Watts Branch Community Day. Extensive media coverage was obtained for both the Kingman Lake and Kingman Island restoration projects. Additionally, the Kingman Lake restoration and the Train-the-Trainer environmental project were featured in *Chesapeake Bay Currents*.

Milestone C: *Develop materials to be published over the Internet (agency: EHA - WPD)*
PROGRESS:

- ▶ WPD has been developing materials for distribution over its web site at www.environ.state.dc.us/watershed. So far, WPD has developed a home page with contact information, an overview of the program, and a page for local events such as environmental workshops and community stream cleanups. Special features linked to the home page include the *Know Your Neighborhood Streams* page and information about our major implementation projects such as Kingman Lake Wetland Restoration and our efforts at Riparian Forest Buffer expansion in Watts Branch. The web page will be reformatted when it moves to the high speed Department of Health webserver at www.dchealth.com/eha.

Milestone D: *Publish water quality information, background information, basin maps, community environmental activities, other relevant environmental information on Watts Branch (2000), Popes Branch (2001), and Nash Run (2002) (agency: EHA - WPD)*
PROGRESS:

- ▶ The Watts Branch *Know Your Neighborhood Streams* web page contains background information on the watershed, a basin map, a land use map, a soil map, water quality data, and a description of the 'watershed' and 'nonpoint source pollution' concepts.
- ▶ The Pope Branch *Know Your Neighborhood Streams* web page is under development. The background information and maps have been developed, but have not yet been loaded onto the web site.
- ▶ The Anacostia Watershed *Know Your Neighborhood Streams* web page is also under development. Water quality data for the Anacostia River for 1999 and 2000 is being reduced into charts and graphs for display on the web page.
- ▶ The Nah Run *Know Your Neighborhood Streams* web page is not yet at the development stage. Basin maps have been produced for eventual use on the web page.

Milestone F: *Produce an Integrated Pest Management (IPM) video as part of the Chesapeake Bay Program for (2001) (agency: EHA - WPD)*
PROGRESS:

- ▶ Cable TV 16 has been selected as the vendor to produce an IPM video for WPD. A MOA has been signed by the Department of Health and Cable TV 16. A timetable for the production of the video has been set.

Milestone G: *Develop a brochure for the Watershed Protection Division and distribute (2001) (agency: EHA - WPD)*
PROGRESS:

- ▶ This was completed in November, 2000, and is currently in the printing process.
- ▶ Distribution of the brochure is a future task.

Objective 4: Support pollution prevention programs such as Integrated Pest Management (IPM), Nutrient Management, trash cleanups and hazardous waste days that educate adults on their role in reducing nonpoint source pollution.

Milestone A: *Develop a brochure on proper pet waste disposal for distribution to pet owners in the District of Columbia and to distribute to pet stores and veterinarians (agency: EHA - WPD)*

PROGRESS:

- ▶ The brochure was developed and finalized in 2000. It is currently in the printing process.

Milestone B: *Participate in community events by setting up Nutrient Management and Integrated Management displays and distributing prepared literature (agency: EHA - WPD)*

PROGRESS:

- ▶ WPD staff attended Mayor Anthony Williams' Information Fair on September 16, 2000. 50 community residents received information about nutrient management and integrated pest management, and viewed educational displays.
- ▶ WPD staff attended Council member Sandy Allen's Health Fair on June 10, 2000. 50 community residents received information about nutrient management and integrated pest management, and viewed educational displays.
- ▶ WPD staff attended the DOH Education Station on July 13, 2000. 30 community residents received information about nutrient management and integrated pest management, and viewed educational displays.
- ▶ WPD staff attended the Chesapeake 2000 Agreement signing ceremony on June 28, 2000. 50 attendees received information about nutrient management and integrated pest management, and viewed educational displays.
- ▶ WPD staff attended the Fourth Annual Water Festival held for elementary and junior high school students, day care facilities and other youth organizations on July 19, 2000. 200 students visited the EnvironScape and integrated pest management exhibits.
- ▶ WPD staff organized and attended the May 9, 2000 Annual Environmental Fair. 500 Junior and High School students visited the ENVIRONSCAPE and integrated pest management exhibits.
- ▶ On April 15, May 20, June 5 and June 6, 2000, a total of 40 Project Learning Tree Workshop participants viewed the EnvironScape Display.

Milestone C: *When possible, provide training, technical assistance, materials, and guidance to District residents or groups interested in participating in a volunteer monitoring program along their neighborhood streams (agency: EHA - WPD)*

PROGRESS:

- ▶ A 15 hour teacher training workshop has been scheduled for March 6, 8 and 10, 2001, entitled: Watershed and Water Quality: Exploring the Urban Stream. Thirty-two teachers are registered. From this training we hope to get at least 3 schools that will be willing to monitor their local streams two times a year.

Milestone D: Show the Nonpoint Source Management Program video at community and educational events (agency: EHA - WPD)

PROGRESS:

- ▶ 10 copies of the nonpoint source video was given to schools. The video was shown at 12 teacher training workshops to a total of 157 teachers.

Milestone E: Update Nonpoint Source Management displays and literature (2001) (agency: EHA - WPD)

PROGRESS:

- ▶ WPD purchased a table top and stand alone Watershed Protection exhibit, created a WPD brochure, and supplemented the environmental education resource room with \$7,000 worth of references, curricula, science lab kits, posters, and educational videos.

Milestone F: Conduct workshops on nutrient management and integrated pest management targeting schools, public housing, and D.C. Parks (agency: EHA - WPD)

PROGRESS:

- ▶ This is a future task.
- ▶ This milestone was created with the expectation that EHA WPD would be hiring new education and outreach staff; however, the appropriate staff person has not yet been identified.

Conclusion

In carrying out the Watershed Protection Division mission to conserve the soil and water resources of the District of Columbia and to protect its watersheds from nonpoint source pollution, we collaborated with other District and Federal agencies, nonprofit organizations, and local public and private stakeholders. We leveraged funding from both public and private sources, and administered these resources efficiently and effectively to meet commitments to grantors and to serve the residents of the District of Columbia.

In the year 2000, the District of Columbia achieved a high degree of success in the management of nonpoint source pollution as can be seen in the long and diverse list of accomplishments:

- ☐ Mitigated 42 acres of tidal wetland
- ☐ Administered 17 schoolyard conservation / water quality mini-grants
- ☐ Initiated agreements for the restoration of Fort Dupont Tributary, Fort Chaplin Tributary, Watts Branch Tributary, Kingman Island and 31 acres of fringe wetland.
- ☐ Installed Trash Netting Trap at targeted storm sewer outfalls on the Lower Anacostia River
- ☐ Budgeted for a Trash Netting Trap and containment oil booms on Hickey Run Tributary
- ☐ Awarded 13 subgrants for nonpoint source projects
- ☐ Reinstated a District of Columbia Soil and Water Conservation District
- ☐ Established an Environmental Education Resource Center for District educators
- ☐ Displayed the nonpoint source pollution and integrated pest management exhibits to over 3,000 District residents
- ☐ Held 13 Project Learning Tree and Project WILD workshops for 186 District educators
- ☐ Coordinated 5 volunteer community outreach events at Watts Branch Tributary, WPD's target watershed
- ☐ Made 35 arrests and generated \$150,000 in fines for environmental violations
- ☐ Planted 4,000 street trees
- ☐ Finalized a MOU between DOH, DPW, DC WASA and the DC Chief Financial Officer to govern the coordination of MS4 permit compliance actions
- ☐ Created a Draft "Storm Water Management Guidebook" that updates the standards and specifications and includes low impact development technologies
- ☐ Developed new standard operating procedures for inspection and enforcement of erosion and sedimentation control and storm water management to ensure compliance by providing a consistent framework for NOIs, fines and stop work orders.
- ☐ Updated the Civil Infractions Law and Civil Infractions Schedule of Fines
- ☐ Produced a sand filter maintenance handbook and video to be distributed to property managers and maintenance contractors
- ☐ Developed a WRAS for the Anacostia River, and draft WRAS for the Lower Anacostia and for Watts Branch, Fort Dupont and Hickey Run Tributaries
- ☐ Organized a Low Impact Development outreach and education event for District and

- Federal Agencies, private engineering and architectural consultants and local nonprofit organizations
- ☐ Arranged a Low Impact Development technical training for WPD plan review, inspection and enforcement staff
 - ☐ Supported the actions of the many local organizations that are working to improve the health of our watersheds.

EHA WPD thanks our public and private partners, including: USEPA, USACE, USDA NRCS, NOAA, USFWS, DCECC, The Summit Fund of Washington, the Anacostia River Business Coalition, and the resident volunteers of the District for their financial and in-kind support of our watershed protection activities. EHA WPD also recognizes the efforts of the Districts' DPW, MPD ECU, DCECC, and DC Public Schools; of WASA, WNY and Howard University; and of the many nonprofit agencies such as the ICPRB, MWCOG, MWAQC, the Earth Conservation Corps, the Anacostia Watershed Business Coalition, the Anacostia Watershed Society, the Center for Watershed Protection, the Low Impact Development Center, and the Natural Resources Defense Council, whose independent actions are integral to the completion of our nonpoint source management plan.

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